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     3 OCT 23
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                CHEMLIST enhanced with new search and display field
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                JAPIO enhanced with IPC 8 features and functionality
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                CA/CAplus F-Term thesaurus enhanced
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                CA/Caplus to MARPAT accession number crossover limit increased
                to 50,000
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       DEC 01
                CAS REGISTRY updated with new ambiguity codes
NEWS 11 DEC 11
                CAS REGISTRY chemical nomenclature enhanced
NEWS 12 DEC 14 WPIDS/WPINDEX/WPIX manual codes updated
NEWS 13 DEC 14 GBFULL and FRFULL enhanced with IPC 8 features and
                 functionality
NEWS 14 DEC 18 CA/CAplus pre-1967 chemical substance index entries enhanced
                with preparation role
NEWS 15 DEC 18
                CA/CAplus patent kind codes updated
NEWS 16 DEC 18 MARPAT to CA/Caplus accession number crossover limit increased
                to 50,000
NEWS 17 DEC 18
                MEDLINE updated in preparation for 2007 reload
NEWS 18 DEC 27
                CA/CAplus enhanced with more pre-1907 records
NEWS 19 JAN 08
                CHEMLIST enhanced with New Zealand Inventory of Chemicals
NEWS 20 JAN 16
                CA/CAplus Company Name Thesaurus enhanced and reloaded
NEWS 21 JAN 16 IPC version 2007.01 thesaurus available on STN
        JAN 16
NEWS 22
                WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS 23
        JAN 22
                CA/CAplus updated with revised CAS roles
NEWS 24
        JAN 22
                CA/CAplus enhanced with patent applications from India
NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT
             MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
             AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.
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NEWS X25
             X.25 communication option no longer available
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ENTRY 0.21

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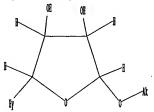
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=>

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chain nodes :

6 7 8 9 10 11 12 13 14

ring nodes:
1 2 3 4 5
chain bonds:

2-11 2-14 3-8 3-9 4-6 4-7 5-10 5-12 12-13

ring bonds :

1-2 1-5 2-3 3-4 4-5

exact/norm bonds :

1-2 1-5 2-3 2-14 3-4 3-8 4-5 4-7 5-12 12-13

exact bonds :

2-11 3-9 4-6 5-10

Match level:

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:Atom

STRUCTURE UPLOADED L1

=> d 11

L1 HAS NO ANSWERS

L1STR

Structure attributes must be viewed using STN Express query preparation.

0 ANSWERS

=> s 11

SAMPLE SEARCH INITIATED 10:40:26 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 20157 TO ITERATE

9.9% PROCESSED 2000 ITERATIONS INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 394641 TO 411639 PROJECTED ANSWERS: O TO 0

L20 SEA SSS SAM L1

=> s 11 full

FULL SEARCH INITIATED 10:41:08 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 406747 TO ITERATE

100.0% PROCESSED 406747 ITERATIONS

66 ANSWERS

SEARCH TIME: 00.00.08

66 SEA SSS FUL L1

=> fil hcaplus

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FULL ESTIMATED COST 172.55 172.76

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 13 L4 52 L3

=> d ed ibib abs hitstr L4 25-52

L4 ANSYER 25 OF 52 HCAPLUS COPYRIGHT 2007 ACS on STN

ED Entered STN: 26 Jul 1992
ACCESSION NUMBER: 1992:422343 HCAPLUS
DOCUMENT TYPE: 1992:422343 HCAPLUS
117:22343 HCAPLUS
1

9606-11
CODEN: JBCHA3; ISSN: 0021-9258
JOURNAL
DOCUMENT TYPE: Journal
AB Modifications at the 2°-position of the nicotinamide-ribosyl molety
influence dramatically the nature of the interactions of the modified
β-NAD with calf spleen NAD glycohydrolase (EC 3.2.2.6), an enzyme
that cleaves the nicotinamide-ribose bound in NAD(P). Nicotinamide
arabinoside adenine dinucleotide (ara-NAD) and nicotinamide
2°-deony-2°-fluororabinoside adenine dinucleotide (ara-NAD) are not
hydrolyzed at measurable rates and are the first documented examples of
reversible slow binding inhibitors of this class of enzyme. The kinetic
data obtained are consistent with both slow kon and koff rate consts. in
the formation of an enzyme-inhibitor complex, i.e. the association rate
consts. are about 104 and 106 slower than diffusion rates, resp., for
araf-NAD and ara-NAD, and the half-life of the complex is about 3-10 min
for both analogs. The kinetic model does not account for a low turnover
of an ADP-ribosyl-enzyme intermediary complex. Araf-NAD is one of the
most potent inhibitors described for NAD glycohydrolase.

II 142177-70-6 HCAPLUS
CN Pyridinium, 3-(Rainocarbonyl)-1-[2-deoxy-2-fluoro-5-0[hydroxy(phosphonoxy)phosphinyl]-β-D-arabinofuranosyl-, inner salt,
P'+5'-ester with 3-β-D-ribofuranosyl-3H-imidazo[2,1-i]purine
(9CI) (CA INDEX NAME)

L4 ANSWER 26 OF 52 HCAPLUS COPYRIGHT 2007 ACS on STN
ED Entered STN: 27 Jun 1992
ACCESSION NUMBER: 1992:251558 HCAPLUS
11G:251559
TITLE: 2 Page 25 A high yield microscale enzymatic synthesis and purification of 14C-labeled nicotinamide adenine dinucleotide phosphate (NADP+)
AUTHOR(S): Ronneberg, Andrew Metz, Gordon, Weld, Richards Roffey, Peters (crany, Chris
CORPORATE SOURCE: Dep. Chem., Occidental Coll., Los Angeles, CA, 90041, USA
SOURCE: Journal of Labeled Compounds and Radiopharmaceuticals (1992), 31(4), 329-32
CODEN: JJCR04; ISSN: 0362-4803
DOCUMENT TYPE: Rogish
AB Uniformly labeled (U) 14C NADP (NADP+) was synthesized by phosphorylating [U-14C]NADD (NAD+) in the presence of immobilized NAD+ kinase. The 15 µC1 (600 µL) synthesis consistently achieved yields between 808 and 85% and radiochem. purities greater than 95%. The [U-14C]NADP+ was purified by hip performance anion-exchange chromatog. using a gradient elution of ammonium bicarbonate. This procedure may be applicable to the synthesis of other charged, UV-absorbing products of enzyme-catalyzed reactions.

IT 141646-06-2 RAPFUS
CN Adenosine 5'-(trihydrogen diphosphate), 3'-(dihydrogen phosphate), P'-5'-ester with 3-(aminocarbonyl)-1-B-D-ribofuranosylpyridinium, inner salt, labeled with carbon 14 (9CI) (CA INDEX NAME)

ANSWER 25 OF 52 HCAPLUS COPYRIGHT 2007 ACS on STN

(Continued)

PAGE 1-B

L4 ANSWER 27 OF 52 HC	APLUS COPYRIGHT 2007 ACS on STN			
ED Entered STN: 15 No	v 1991			
ACCESSION NUMBER:	1991:608461 HCAPLUS			
DOCUMENT NUMBER:	115: 208461			
TITLE:	Preparation of phosphorus-containing nucleoside analogs as antitumors and antivirals			
INVENTOR (S):	Kim, Choung Un; Martin, John C.; Misco, Peter F.; Luh, Bing Yu			
PATENT ASSIGNEE(S):	Bristol-Myers Co., USA			
SOURCE:	Eur. Pat. Appl., 48 pp.			
	CODEN: EPXXDW			
DOCUMENT TYPE:	Patent			
LANGUAGE:	English			
FAMILY ACC. NUM. COUNT:	1			
PATENT INFORMATION:				
PATENT NO.	KIND DATE APPLICATION NO. DATE			
EP 398231	A2 19901122 EP 1990-109066 19900514			
EP 398231	A3 19930602			
EP 398231	B1 19970716			
R: AT, BE, CH,	DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE			

EP 398231	A2	19901122	EP 1990-109066	19900514
EP 398231	A3	19930602		
EP 398231	B1	19970716		
R: AT, 1	BE, CH, DE, DK	, ES, FR, G	B, GR, IT, LI, LU, N	IL, SE
CA 2015671	A1	19901115	CA 1990-2015671	19900427
CA 2015671	c	20000425		
CA 2297294	A1	19901115	CA 1990-2297294	19900427
CA 2297294	С	20051108		
AU 9055012	A	19901115	AU 1990-55012	19900514
AU 630953	B2	19921112		
ZA 9003647	A	19910130	ZA 1990-3647	19900514
AT 155480	T	19970815	AT 1990-109066	19900514
ES 2104570	т3	19971016	ES 1990-109066	19900514
KR 167080	B1	19990415	KR 1990-6858	19900514
JP 03005493	A	19910111	JP 1990-123262	19900515
JP 2900064	B2	19990602		
AU 9224592	A	19921119	AU 1992-24592	19920918
AU 646594	B2	19940224		
US 5688778	A	19971118	US 1995-391312	19950217
US 5686611	Ä	19971111	US 1995-488339	19950607
US 5693798	A	19971202	US 1995-488337	19950607
US 5696265	A	19971209	US 1995-488340	19950607
US 5726174	A	19980310	US 1995-488338	19950607
US 5837871	A	19981117	US 1995-486991	19950607
KR 167089	B1	19990330	KR 1998-20407	19980602
PRIORITY APPLN. II	VFO.:		US 1989-352303	A 19890515
			US 1990-481569	A 19900222
			US 1990-481659	19900222
			CA 1990-2015671	A3 19900427
			US 1991-765774	B1 19910926
			US 1995-391312	A3 19950217

OTHER SOURCE(S): MARPAT 115:208461
G1 For diagram(s), see printed CA Issue.
AB Title compds. XO-P(O) (OX1) CHROCHRIB [I: X, X1 = H, alkyl, cation; R, R1 = H, alkyl, hydroxyalkyl, alkanoyl; B = purinyl, pyrimidinyl], II [Y, 2 = H, OH, (substituted) alkyl, or Y2 = O, CH2], III [R2 = OH], IV, and their pharmaceutically acceptable salts, especially useful as retrovirus inhibitors,
Were prepared BZOCHZOHZOBZ [prepared from BZONa and (CICHZ)2O], was treated
with 1-(trimethylsilyl) thymine (prepared from thymine and Me3SiCl) in CF3SO3SiMe3 at 25' for 8 h to give 1-[[(benzoyloxy)methoxy]methyl]t hymine, which was condensed with (EtO)2P(O)CHZOH in benzene at 85'

ANSWER 27 OF 52 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)
for 20 min to give I (X = X1 = Et, R = R1 = H, B = 1-thyminyl). 9-[3-(Pho
sphonomethoxy)methoxymethyl]guanine di-Na salt (prepn. given) had an ID50
of 2.6 µg/mL against herpes simplex virus-1 compared with 0.5 µg/mL
for acyclovir.

132178-55-3P 132204-44-5P 136688-39-6P
136688-40-9P 136688-41-0P 136688-42-1P
136688-43-2P 136688-44-3P 136688-45-4P
136688-6-5P 136688-47-6P 1367]1-57-4P
136778-55-7P 136778-58-0P 136778-60-4P
RL: SPN (Synthetic preparation), PREP (Preparation)
(preparation of, as antiviral and antitumor)
132178-55-3 RCAPLUS
Phosphonic acid, [[[(2R, 35, 4R, 5R) -5-[6-((2, 2-dimethyl-1-oxopropyl)amino]9H-purin-9-yl]tetrahydro-3,4-dihydroxy-2-furanyl]oxy]methyl]-, dimethyl
ester (9CI) (CA INDEX NAME)

ΙT

Absolute stereochemistry.

132204-44-5 HCAPLUS Phosphonic acid, [[[5-(6-amino-9H-purin-9-y1)tetrahydro-3,4-dihydroxy-2-furanyl]oxy]methyl]-, monoammonium salt, [2R-(2 α ,3 β ,4 β ,5.a lpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

• инз

ANSWER 27 OF 52 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

136688-43-2 HCAPLUS Phosphonic acid, $\{[\{5-(3,4-\text{dihydro-5-methyl-2},4-\text{dioxo-1}(2H)-\text{pyrimidinyl}\}\text{ tertahydro-3},4-\text{dihydroxy-2-furanyl}\text{oxy}]\text{methyl}]-, monomethyl ester, <math>\{2R-(2\alpha,3\beta,4\beta,5\alpha)\}-(9\text{CI})$ (CA INDEX NAME)

136688-44-3 HCAPLUS Phosphonic acid, [[[5-(6-amino-9H-purin-9-y1)tetrahydro-3,4-dihydroxy-2-furanyl]oxy]methyl]-, monomethyl ester, $\{2R-\{2\alpha,3\beta,4\beta,5.alpha.\}\}$ - (9CI) (CA INDEX NAME)

136688-45-4 HCAPLUS Phosphonic acid, [[[5-(2-amino-1,6-dihydro-6-oxo-9H-purin-9-yl)tetrahydro-3,4-dihydro-y-2-furanyl]oxy]methyl]-, monomethyl ester, [2R- $\{2\alpha,3\beta,4\beta,5\alpha\}$]- [9CI) (CA INDEX NAME)

136688-46-5 HCAPLUS
Phosphonic acid, [[[5-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)tetrahydro-3,4-dihydroxy-2-furanyl]oxy]methyl]-, disodium salt, [2R-(2a,3β,4β,5a]]- (9CI) (CA INDEX NAME)

ANSWER 27 OF 52 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued) 136688-39-6 HCAPLUS Phosphonic acid, [[[5-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)tetrahydro-3,4-dihydroxy-2-furanyl]oxy]methyl]-, dimethyl ester, [2R-(2a,3β,4β,5a)]- (9CI) (CA INDEX NAME)

136688-40-9 HCAPLUS
Phosphonic acid, [[[5-(6-amino-9H-purin-9-yl)tetrahydro-3,4-dihydroxy-2-furanyl]oxy]methyl]-, dimethyl ester, [2R-(2a,3β,4β,5.alph a.)]- (9CI) (CA INDEX NAME)

136688-41-0 HCAPLUS

Phosphonic acid. [[[5-(2-amino-1,6-dihydro-6-oxo-9H-purin-9-y1) tetrahydro-3,4-dihydroxy-z-furanyl) oxymethyl]-, dimethyl ester, [2R-(2x,3B,4B,5a)]- [SCI] (CA INDEX NAME)

136688-42-1 HCAPLUS
Phosphonic acid, [[[5-(4-amino-2-oxo-1(2H)-pyrimidinyl)tetrahydro-3,4-dihydroxy-2-furanyl)oxy]methyl]-, dimethyl ester, [2R-(2a,3p,4p,5a)]- (9CI) (CA INDEX NAME)

ANSWER 27 OF 52 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

•2 Na

136688-47-6 HCAPLUS
Phosphonic acid, [[[5-(4-amino-2-oxo-1(2H)-pyrimidinyl)tetrahydro-3,4-dihydroyz-2-furanyl]oxy]methyl]-, disodium salt, [2R-(2a,3β,4β,5a)]- (9CI) (CA INDEX NAME)

136711-57-4 HCAPLUS Phosphonic acid, [[$\{5-\{4-amino-2-oxo-1(2H)-pyrimidinyl\}\}$ tetrahydro-3,4-dihydroxy-2-furanyl]oxy]methyl]-, monomethyl ester, [2R- $\{2\alpha,3\beta,4\beta,5\alpha\}\}$ - [9CI] (CA INDEX NAME)

136778-55-7 HCAPLUS
Phosphonic acid, [[[5-(6-amino-9H-purin-9-y1)tetrahydro-3,4-dihydroxy-2-furanyl]oxy]methyl]-, disodium salt, [2R-(2a,3B,4B,5.alpha
.]]- (9CI) (CA INDEX NAME)

●2 Na

136778-58-0 HCAPLUS Phosphonic acid, [[[5-(3,4-dihydro-5-methyl-2,4-dioxo-1(2H)-pyrimidinyl)tetrahydro-3,4-dihydroxy-2-furanyl]oxy]methyl]-, monomethyl ester, monosodium salt, $[2R-\{2\alpha,3\beta,4\beta,5\alpha\}]$ - [9CI) (CA INDEX NAME)

136778-60-4 HCAPLUS
Phosphonic acid, [[[5-(6-amino-9H-purin-9-y1)tetrahydro-3,4-dihydroxy-2-furanyl]oxy]methyl]-, monomethyl ester, monoammonium salt, [2R-(2a,3B,4B,5x)]- (9CI) (CA INDEX NAME)

• NH3

L4 ANSWER 28 OF 52 HCAPLUS COPYRIGHT 2007 ACS on STN
ED Entered STN: 03 May 1991
ACCESSION NUMBER: 1991:164688 HCAPLUS
COUMENT NUMBER: 1191:164688
Regiospecific and highly stereoselective electrophilic addition to furancid glycals: synthesis of phosphonate nucleotide analogs with potent activity against HIV
AUTHOR(5): Kim, Choung Un; Luh, Bing Y.; Martin, John C.
Pharm. Res. Inst., Bristol-Hyers Squibb Co., Wallingford, CT, 06492-7660, USA
JOURNET TYPE: LANGUAGE: OCCUMENT TYPE:
LANGUAGE: JOURCE(S): CASREACT 114:164688
GI

DOCUMENT TYPE: LANGUAGE: OTHER SOURCE(S): GI

Regiospecific and highly stereoselective electrophilic addition to furanoid glycals was used as a key step in the synthesis of phosphonate isosteres of nucleoside monophosphates. The synthesis of the phosphonate isostere of adenosine monophosphate is presented. Despite the acetal structure, phosphonate derivs., e.g., I [R = P(D) (DH) ONN(4) [II], were substantially more acid stable than the corresponding nucleosides, e.g. I (R = CH2OH), with respect to glycosidic bond cleavage. II exhibited a potent antiretroviral activity comparable to that of didehydrodideoxynucleoside III. The determination of the crystal structure of iodomethoxyfurylthymine

helped provide guidance on the stereochem. outcome of the electrophilic

helped provide yourselve on the saddns.

132204-44-59
RL: SPN (Synthetic preparation): PREP (Preparation)
(preparation of)

132204-44-5 HCAPLUS
Phosphonic acid, {{{S-(6-amino-9H-purin-9-y1)tetrahydro-3,4-dihydroxy-2-furany1]oxy]methy1]-, monoammonium salt, {2R-(2a,3β,4β,5.a}
lpha.}]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

ANSWER 28 OF 52 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

132178-55-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepacation of, in synthesis of phosphonate nucleotide analogs)
132178-55-3 HCAPAUS
Phosphonic acid, [[[(2R,35,4R,5R)-5-[6-[(2,2-dimethyl-1-oxopropyl)amino]-9H-purin-9-yl]tetrahydro-3,4-dihydroxy-2-furanyl]oxy]methyl]-, dimethyl
ester (9CI) (CA INDEX NAME)

SOURCE:

L4 ANSWER 29 OF 52 HCAPLUS COPYRIGHT 2007 ACS ON STN ED Entered STN: 21 Jul 1990 ACCESSION NUMBER: 1990:424393 HCAPLUS DOCUMENT NUMBER: 113:24393

TITLE:

113:24393
Glycosyl a-amino acids via stereocontrolled
buildup of a penaldic acid equivalent. A novel
synthetic approach to the nucleosidic component of the
polyoxins and related substances
Garner, Philip: Park, Jung Min
Dep. Chem., Case West. Reserve Univ., Cleveland, OH,
44106-2699, USA
Journal of Organic Chemistry (1990), 55(12), 3772-87
CODEN: JOCEAH; ISSN: 0022-3263
Journal
English
CASREACT 113:24393

AUTHOR(S):

CORPORATE SOURCE:

DOCUMENT TYPE:

___GOAGE: OTHER SOURCE(S): GI

A novel approach to glycosyl a-amino acids is exemplified by the stereocontrolled and asym. synthesis of thymine polyoxin C (I) from the known (serine-derived) penaldic acid equivalent II. The overall synthetic strategy involves four distinct phases: (I) distresceselective addition of a 3-carbon nucleophile (Et lithiopropiolate) to the protected serinal varies. AB

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derivative
(2) stereocontrolled elaboration of the 5-amino-5-deoxyallofuranose molety
via cis-hydroxylation of a 4-substituted butenolide, (3) release of the
latent e-amino acid moiety in a suitably protected form, and (4)

ANSWER 29 OF 52 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

ANSYER 29 OF 52 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued) stereo- and regioselective nucleoside formation using Vorbrueggen's glycosylation methodol. Followed by deprotection. A similar route employing LiC.tplbond.CH(OMe2) as the 3-carbon nucleophile led to the formation of stereoisomeric 5-amino-5-deoxymannofuranuronic acid nucleosides, e.g., 111 (R - Ac, Cb2) along with novel acyclic 1-methoxy-D-allo-hexouronate nucleosides, e.g., 1V. 127256-9 eF 127308-61-6P 127308-62-7P RL: RCT (Reactant): SPN (Synthetic preparation): PREP (Preparation): RACT (Reactant or reagent) (preparation and acetylation of) 127256-9-8 HCAPLUS (Synthetic preparation): PREP (Preparation): 3-00xazolidinecarboxylic acid, 2,2-dimethyl-4-(tetrahydro-3,4-dihydroxy-5-methoxy-2-furanyl)-, 1,1-dimethylathyl ester. [2R-[2x], 1,1,2x,4x,5p]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

127308-61-6 HCAPLUS 3-0xazolidinecarboxylic acid, 2,2-dimethyl-4-(tetrahydro-3,4-dihydroxy-5-methoxy-2-furanyl)-, 1,1-dimethylethyl ester, [2R-[$2\alpha(R^*)$,3 β ,4 β ,5 α]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

127308-62-7 HCAPLUS

12730-02-7 mcFB03 3-Owazolidinecarboxylic acid, 2,2-dimethyl-4-(tetrshydro-3,4-dihydroxy-5-methoxy-2-furanyl)-, 1,1-dimethylethyl ester, [2R-[2a(R*),3,4a,5a]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 30 OF 52 HCAPLUS COPYRIGHT 2007 ACS ON STN ED Entered STN: 06 Jul 1990 406704 HCAPLUS DOCUMENT NUMBER: 1590:406704 HCAPLUS 131:6704 Synthesis of an immunologically

113:6704
Synthesis of an immunologically active component of the extracellular polysaccharide produced by Aspergillus and Penicillium species
Veeneman, G. H., Noterman, S., Hoogerhout, P.; Van Boom, J. H.
Gorlaeus Lab., Leiden, 2300 RA, Neth.
Recueil des Travaux Chimiques des Pays-Bas (1989), 108(10), 344-50
CODEN: RTCPA3; ISSN: 0165-0513
JOURNAL
English
CASREACT 113:6704
Munol. active component of the extracellular

AUTHOR (S):

CORPORATE SOURCE:

DOCUMENT TYPE:

DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): English
OTHER SOURCE(S): CASREACT 113:6704

AB The synthesis of immunol. active component of the extracellular
polysaccharide produced by Aspergillus and Penicillium species, in the
form of tetrameric β(1-5) interlinked D-galactofuranoside, is
described. Key reactions are the assemblage of a galactofuranosyl donor,
having a selective removable protecting group at C-5, and a stepwise
elongation-deprotection procedure. Furthermore, the synthesis of
β(1-2), β(1-3), and β(1-6)-Dgalactofuranosyl dimers is reported.

IT 20869-14-1
RL: RCT (Reactant): RACT (Reactant or reagent)
(prepns. and benzoylation of)

RN 20869-14-1 HCAPLUS
CN β-D-Galactofuranoside, methyl 5,6-O-(1-methylethylidene)- (9CI) (CA
INDEX NAME)

L4 ANSWER 31 OF 52 HCAPLUS COPYRIGHT 2007 ACS on STN ED Entered STN: 19 Aug 1988 ACCESSION NUMBER: 1988:455090 HCAPLUS DOCUMENT NUMBER: 109:55090

DOCUMENT NUMBER: TITLE:

Preparation of long-chain alkyl D-glucosides by alcoholysis of 1,2:5,6-di-O-isopropylidene-a-D-

alconoxyalova glucofuranose Straathof, A. J., Romein, J.; Van Rantwijk, F.; Kleboom, A. P. G.; Van Bekkum, H. Lab. Org. Chem., Delft Univ. Technol., Delft, 2628 BL, AUTHOR(S): CORPORATE SOURCE:

SOURCE:

DOCUMENT TYPE: LANGUAGE:

ORATE SOURCE: Lab. Org. Chem., Delft Univ. Technol., Delft, 2628 BL, Neth.

CE: Starch/Staerke (1987), 39(10), 362-8
CODEN: STARDD; ISSN: 0038-9056

MENT TYPE: Journal
LUGE: English
The acid-catalyzed reaction of 1,2:5,6-di-O-isopropylidene-a-Dglucofuranose (I) with BuOH was studied using HPLC and NNR. The course of
the reaction, which involved 6 compds. containing isopropylidene groups, was
elucidated. Eventually an anomeric mixture of Bu D-glucosides was formed.
HZSG4, MeSO3H, HBF4, an ion-exchange resin (-SO3H), and a SiO2-Al203
catalyst showed different selectivities and catalystic activities. The
ion-exchange resin was the catalyst of choice, yielding s90% Bu
D-glucoside. Reaction of I with octanol gave a mixture from which octyl
a-D-glucopyranoside could be crystallized in 30% yield. An almost quant.
yield of the latter compound, however, was obtained by recycling the mother
liquor. This procedure also avoids wasting of the ion-exchange resin
catalyst and the excess of octanol. 1-Decanol and 1-dodecanol gave
talline. crystalline

talline.

«-D-glucopyranosides by the same method.

115393-48-1P 115409-39-7P

RI: FORM (Formation, nonpreparative): PREP (Preparation)

(formation of, in alcoholysis of disopropylideneglucofurance with

butanol) 115393-48-1 HCAPLUS P-0-Glucofuranoside, butyl 5,6-0-(1-methylethylidene)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

115409-39-7 HCAPLUS a-D-Glucofuranoside, butyl 5,6-0-(1-methylethylidene)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 32 OF 52 HCAPLUS COPYRIGHT 2007 ACS on STN ED Entered STN: 12 Dec 1987 ACCESSION NUMBER: 1987:617959 HCAPLUS DOCUMENT NUMBER: 107:217959

DOCUMENT NUMBER: TITLE:

OCATIONS

107:217959

Synthesis of a cell-wall component of Aspergillus niger containing four β(1-5)-interlinked D-galactofuranosyl residues

Veeneman, G. H.; Hoogerhout, P.; Westerduin, P.; Notermans, S.; Van Boom, J. H.

Gorlaeus Lab., Leiden, 2300 RA, Noth.

Recueil des Travaux Chimiques des Pays-Bas (1987), 106(4), 129-31

CODEN: NTCPA3; ISSN: 0165-0513

Journal
English

AUTHOR (S):

CORPORATE SOURCE: SOURCE:

DOCUMENT TYPE: LANGUAGE: GI

2,3-Di-O-benzoyl-5-O-chloroacetyl-6-O-pivaloyl-β-D-galactofuranosyl chloride proved to be very suitable for the introduction, via the Helferich procedure, of three β(1-5) interlinked D-galactofuranosyl residues and a β-orientated spacer to give oligosaccharide I. 20869-14-IP RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and benzoylation of) 20869-14-I HCAPLUS β-D-Galactofuranoside, methyl 5,6-O-(1-methylethylidene) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

ANSWER 31 OF 52 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L4 ANSWER 33 OF 52 HCAPLUS COPYRIGHT 2007 ACS ON STN
ED Entered STN: 29 May 1987
ACCESSION NUMBER: 1987:176760 HCAPLUS
DOCUMENT NUMBER: 106:176760
TITLE: Synthetic studies on alvosidic

106:176760
Synthetic studies on glycosidic phytotoxins. Part III. Synthetic studies on derivatives of 5-O-B-D-galactofuranosyl-D-galactofuranose Sugawara, Fumior Nakayama, Haruhikor Ogawa, Tomoya RIKEN, Wako, 351-Ol. Japan Agricultural and Biological Chemistry (1986), 50(6), 1557-61
CODEN: ABCHA6; ISSN: 0002-1369
Journal English AUTHOR(S): CORPORATE SOURCE: SOURCE:

DOCUMENT TYPE: LANGUAGE: GI

Galactofuranosyl chloride I, prepared from the corresponding 1-O-acetate and AlCl3, was converted in 6 steps into allyl galactofuranoside II, which was glycosylated with I in CHZcl2 in the presence of HgBr2 and mol. sieve to give the disaccharide III (RI = allyl, R2 = PhCH2, R3 = AC) (IV). IV on deprotection gave the title compound III (RI = R2 = R3 = H). IV was converted in 3 steps into III (RI = H, R2 = R3 = PhCH2), which is a key glycosyl donor in the synthesis of helminthosporoside (HS-toxin). 107724-08-3P
RL: RCT (Reactant); SFN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and benzylation of) 107724-08-3 HAZPLUS
PD-Galactofuranoside, 2-propenyl 5,6-O-(1-methylethylidene)- (9CI) (CA INDEX NAME)

III

ANSWER 33 OF 52 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L4 ANSWER 35 OF 52 HCAPLUS COPYRIGHT 2007 ACS on STN
ED Entered STN: 12 May 1984
ACCESSION NUMBER: 1981:620237 HCAPLUS
DOCUMENT NUMBER: 95:220237
TITLE: A simple regioselective partial hydrolysis of di-O-isopropylidene monosaccharides with copper(II) AUTHOR(S):

AUTHOR(S):

AUTHOR(S):

CORPORATE SOURCE:

SOURCE:

SOURCE:

Date of the Chemical Society of Japan (1981), 54(9), 2837-8

CORDINET TYPE:

DOCUMENT TYPE:

DOCUMENT TYPE:

DOCUMENT TYPE:

DOCUMENT TYPE:

DOCUMENT TYPE:

DOCUMENT TYPE:

AB Cu(II) ion was effective for regioselective removal of the 5,6-0-isopropylidene group of a-D-mannose and a-D-glucose derivs, in alcs. at ambient temperature

IT 79940-49-1P

RL: SPM (Synthetic preparation); PREP (Preparation) (preparation of)

RN 79940-49-1 RCAPLUS

N P-D-Mannofuranoside, phenylmethyl 5,6-0-(1-methylethylidene)- (9CI) (CA INDEX NAME)

Absolute stereochemistry

L4 ANSWER 34 OF 52 HCAPLUS COPYRIGHT 2007 ACS on STN ED Entered STN: 12 May 1994 ACCESSION NUMBER: 1984:51910 HCAPLUS DOCUMENT NUMBER: 100:51910 100:51910
Synthesis of the tetrose synthon of the chromomycinone side chain from D-galactose Thiem, Joachims Wessel, Hans Peter Inst. Org. Chem. Biochem., Univ. Hamburg, Hamburg, D-2000/13, Fed. Rep. Ger. Liebigs Annalen der Chemie (1983), (12), 2173-84 CODEN: LACHDL; ISSN: 0170-2041
JOURNAL GERMAN DOCUMENT NUMBER: TITLE: AUTHOR(S): CORPORATE SOURCE: SOURCE: DOCUMENT TYPE: LANGUAGE: GI

Galactofuranoside I (R = H) on sequential acetonation, benzylation, and acetal cleavage gave I (R = PhCH2), which by different routes was converted into fucose derivative II (R = PhCH2, Rl = H). The latter was 0-methylated and then debenzylated to give II (R = H, Rl = He), which on periodate oxidative cleavage followed by acetal formation gave D-threose synthon III of the chromomycinone side chain.

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) Srw (Synthetic preparation); (Reactant or reagent) (Reactant or reactant or reac

Absolute stereochemistry.

L4 ANSWER 36 OF 52 HCAPLUS COPYRIGHT 2007 ACS on STN ED Entered STN: 12 May 1994 ACCESSION NUMBER: 1991:121427 HCAPLUS DOCUMENT NUMBER: 94:121427 TITLE: Synthess - F. Syn

AUTHOR (S): CORPORATE SOURCE:

94:121427
Syntheses of the chromomycinone side chain from carbohydrate precursors
Thiem, Joachim; Vessel, Hans Peter
Inst. Org. Chem. Biochem., Univ. Hamburg, Hamburg, D-2000/13, Fed. Rep. Ger.
Tetrahedron Letters (1980), 21(37), 3571-4
CODEN: TELEAY; ISSN: 0040-4039
Journal
English

DOCUMENT TYPE: LANGUAGE: GI

AB The dithianes I (R = H, Me), having the D-threo configuration, were prepared (8 and 13%) from D-arabinose and D-galactose in 9 and 11 steps, resp. Their dianions were used for nucleophilic addition to PhCHO as a model for the aglycon moiety of the chromomycinone side chain. The trianion formation of a dithiane-blocked a, B-dihydroxy aldehyde reported by R. P. Hatch, et al. (1978) could not be confirmed.

17 7659-16-7P RL: SPN (Synthetic preparation) PREP (Preparation) (preparation of, as intermediate in preparation of chromomycinone side chain from

n from
galactose)
76996-16-7 HCAPLUS
β-D-Galactofuranoside, ethyl 5,6-0-(1-methylethylidene)- (9CI) (CA

L4 ANSWER 37 OF 52 HCAPLUS COPYRIGHT 2007 ACS on STN

ED Entered STN: 12 May 1984
ACCESSION NUMBER: 93:8449 HCAPLUS
ODCUMENT NUMBER: 93:8449
ITILE: 1880:408449 HCAPLUS
93:8449
ITILE: 59:449
Interaction between methanol and D-glucose bis (benzeneboronate): synthesis of methyl D-glucofuranosides
Briggs, Juner McKinley, Ian R.; Weigel, Helmut
CORPORATE SOURCE: 8: Holloway Coll., Univ. London, Egham/Surrey, TW20
OEK, UK
SOURCE: Carbohydrate Research (1980), 80(2), 340-2
CODEN: CRERATT; ISSN: 0008-6215

DOCUMENT TYPE: Journal English

LANGUAGE:

UAGE: English
When a-D-glucofuranose 1,2:3,5-bis(benzeneboronate) was treated with
MeOH in the presence of RESO4 72 h at room temperature, paper chromatog,
revealed almost quant, conversion into Me D-glucofuranosides. Only traces
of Me D-glucopyranosides were detected.
73834-29-4P
RL: SPM (Synthetic preparation), PREP (Preparation)

(preparation of)
73834-29-4 HCAPLUS
8-D-Glucoflanoside, methyl 5,6-0-(1-methylethylidene)- (9CI) (CA
INDEX NAME)

Absolute stereochemistry.

ANSWER 38 OF 52 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

73488-42-3 HCAPLUS a-D-Allofuranoside-2-C-d, methyl 5,6-O-cyclohexylidene- (9CI) (CA INDEX NAME)

L4 ANSWER 38 OF 52 HCAPLUS COPYRIGHT 2007 ACS on STN ED Entered STN: 12 May 1984 ACCESSION NUMBER: 1980:181571 HCAPLUS DOCUMENT NUMBER: 92:181571

TITLE:

AUTHOR(S): CORPORATE SOURCE: SOURCE:

1980:181571 HCAPLUS
92:181571
The use of Grignard reagents in the synthesis of carbohydrates. I. The synthesis of deoxy and branched-chain deoxy sugars
Kawana, Masajiro: Emoto, Sakae
Inst. Phys. Chem. Res., Wako, 351, Japan
Bulletin of the Chemical Society of Japan (1980),
53(11), 222-9
CODEN: BCSJA0, ISSN: 0009-2673

DOCUMENT TYPE: Journal English

LANGUAGE: GI

AB Two branched-chain deoxy sugars, I and its \$\beta\$-D-ribo isomer were easily prepared by the 1-step reaction of Me

5,6-O-cyclohexylidene-3-O-mesyl\$\beta\$-D-allofuranoside (II) with MeMgI. Similarly, the corresponding \$\alpha\$-m-ribo-hexofuranoside. These reactions involved 1,2-hydride shifts. The reaction of II and III with Me3CMyBr yielded 2 deoxy sugars, Me 5,6-O-cyclohexylidene-3-rabino-hexofuranoside and the corresponding \$\alpha\$-D-ribo isomer, resp. Under certain reaction conditions with the Grigand reagents, II afforded dimeric compds., in which 2 furanose rings were directly bound with a carbon-carbon bond. A convenient method for the preparation of II and III is also reported.

IT \$\$109-24-3P 73488-42-3P Rb: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

RN \$\$109-24-3 HCAPIUS CN \$\alpha\$-24-3 HCAPIUS CN \$\alpha\$-24-3P (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 39 OF 52 HCAPLUS COFYRIGHT 2007 ACS ON STN
ED Entered STN: 12 May 1984
ACCESSION NUMBER: 1980:76871 HCAPLUS
DOCUMENT NUMBER: 1980:76871 HCAPLUS
TITLE: 92:76871
SYNTHES OF 5-thio-D-galactose
AUTHOR(S): Synthesis of 5-thio-D-galactose
AUTHOR(S): Sinin, Jeong E. Nam: Perlin, Artt
Dep. Chem., McGill Univ. Monte
SOURCE: Carbohydrate Research (1979), 7:
CODEN: CRBRATI ISSN: 0008-6715 92:76871 Synthesis of 5-thio-D-galactose Shin, Jeong E. Namr Perlin, Arthur S. Dep. Chem., McGill Univ., Montreal, QC, H3C 3G1, Can. Carbohydrate Research (1979), 76, 165-76 CODEN: CREMATY ISSN: 0008-6215

DOCUMENT TYPE: LANGUAGE: AB A synthes: Me MENT TYPE: Journal
UNGE: English
A synthesis of 5-thio-D-galactose, in the form of its crystalline, anomeric

A synthesis of 5-thio-D-galactose, in the form of its crystalline, anomeric glycopyranosides, is described. Compds. prepared as intermediates included Et 2,3-di-O-(tert-butyldimethylsily)1-5-6-O-carbonyl-B-D-galactofuranoside, the corresponding 5,6-dideony-5,6-spithio derivs., and Et 2,3-6-tri-O-acetyl-5-5-5-acetyl-5-thio-B-D-galactofuranoside. On methanolysis, the latter afforded Me 5-thio-B-D-galactoryranoside which, in turn, was transformed into Me 5-thio-B-D-galactopyranoside. Acetolysis proved to be less satisfactory for incorporation of the S atom into a pyranose ring-form. Characteristics of the 13C-NMR spectra of derivs. of 5-thio-D-galactose are described, including the fact that JJC,H values for the anomeric pyranosides differ by only 1-3 Hz, as compared with apprex.10 Hz for their O analogs. 72661-58-67 (Reactant), SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (Preparation) (PREPARED STANDUS) (PREPARED STANDU

L4 ANSWER 40 OF 52 HCAPLUS COPYRIGHT 2007 ACS on STN

ED Entered STN: 12 May 1984
ACCESSION NUMBER: 1979:611761 HCAPLUS

DOCUMENT NUMBER: 91:211761

TITLE: AUTHOR(S): 5 Some reactions of furancid glycals
Bischofberger, Karl; Eitelman, Stephen J.; Jordaan,
Amor

Amortical Amorti CORPORATE SOURCE:

DOCUMENT TYPE: LANGUAGE: GI

The reaction of glycal I (R = H) with m-ClCGH4C(0)OOH in EtOH gave unsatidulties glycosides II together with saturated Et glycosides formed by trans-ring opening of 1,2-epoxide intermediates. Similar results were obtained on peroxidn. of I (R = 2,3:5,6-di-0-isopropylidene-a-D-mannofuranosyl). Products resulting from osmylation of I and cleavage of the osmate esters are described. 2-peoxy derivs, were prepared from I by methoxymercuration-demercuration and also by reduction of 2-bromo-2-deoxy derivs, obtained by ethoxymeromiation.

Generalization and sist of reduction of 2-bromo-2-deoxy derivs. Obtained by ethoxybromaination.
71952-30-2P 71974-79-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and acetylation of)
71952-30-2 HCAPLUS
PD-Glucoffuranoside, ethyl 5,6-0-(1-methylethylidene)- (9CI) (CA INDEX NAME)

71974-79-3 HCAPLUS a-D-Mannofuranoside, ethyl 5,6-0-(1-methylethylidene)- (9CI) (CA INDEX NAME)

L4 ANSWER 41 OF 52 HCAPLUS COPYRIGHT 2007 ACS on STN

ED Entered STN: 12 May 1984
ACCESSION NUMBER: 91:57406 HCAPLUS

DOCUMENT NUMBER: 91:57406
AUTHOR(S): Acid-catalyzed hydrolysis of alkyl
B-D-glucofuranoside 5,6-carbonates
Bewiller, James N.: Nalin, Daniel J.
Dep. Chem. Biochem., Southern Illinois Univ.,
Carbondale, IL, 62901, USA
Carbohydrate Research (1979), 70(2), 319-22
CODEN: CRBRAT; ISSN: 0008-6215
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Rate consts. for the title process where alkyl - Me, Et, Pr were determined at

3 or more temps. and 2 or more acid concns., and the activation parameters were determined The Ea and AS.dbldag. values do not eliminate the A-1 mechanism suggested by J. N. BeHiller (1967) or the A-2 mechanism suggested by W. G. Overend, et al (1962) and by B. Capan and D. Thacker (1967).

46687-78-9 70835-84-6 70835-85-7

400s/-76-9/ Vd93-54-0 / Vd53-52-7 RL: RCT (Reactant), RACT (Reactant or reagent) (acid hydrolysis of, kinetics and mechanism of) 46697-78-9 HCAPLUS β-0-Glucofuranoside, ethyl, cyclic 5,6-carbonate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

70835-84-6 HCAPLUS

 β -D-Glucofuranoside, methyl, cyclic 5,6-carbonate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

70835-85-7 HCAPLUS B-D-Glucofuranoside, propyl, cyclic \$,6-carbonate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 40 OF 52 HCAPLUS COPYRIGHT 2007 ACS on STN Absolute stereochemistry.

ANSWER 41 OF 52 HCAPLUS COPYRIGHT 2007 ACS on STN

L4 ANSWER 42 OF 52 HCAPLUS COPYRIGHT 2007 ACS on STN ED Entered STN: 12 May 1984 ACCESSION NUMBER: 1978:510163 HCAPLUS DOCUMENT NUMBER: 89:110163

DOCUMENT NUMBER:

1978:510163 HCAPLUS

89:110163

TITLE: Presence of D-galactofuranose in the capsular polysaccharide of Klebsiella serctype K-41: synthesis of 5.6-di-O-methyl-D-galactofuranose

AUTHOR(S): Chambat. Gerard; Joseleau, Jean Paul; Lapeyre, Harielle; Lefebvre, Andree

CORPORATE SOURCE: Chambat. Gerard; Joseleau, Jean Paul; Lapeyre, Harielle; Lefebvre, Andree

CORPORATE SOURCE: Carbohydrate Research (1978), 63, 323-6

COEN: CREART; ISSN: 0008-6215

DOCUMENT TYPE: Journal

LANGUAGE: Regist Register Regist Regist Regist Regist Regist Regist Regist Regist Register Regist Regist Regist Regist Regist Regist Regist Regist Register Regist Register Registe

20869-14-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and benzylation of)
20869-14-1 HCAPLUS
P-D-Galactofuranoside, methyl 5,6-0-(1-methylethylidene)- (9CI) (CA TUNNEY NAMEX)

INDEX NAME)

Absolute Stereochemistry.

L4 ANSWER 44 OF 52 HCAPLUS COPYRIGHT 2007 ACS on STN ED Entered STN: 12 May 1984 SOCCESSION NUMBER: 1978:105684 HCAPLUS BE:105684 HCAPLUS SYNTHESIS of 5-O-P-D-galactofur:

88:105684
Synthesis of 5-O-B-D-galactofuranosyl-D-galactofuranose
Van Heeswijk, Wolfgang A. R., Visser, Henny G. J.,
Vilegenthart, Johannes F. G.
Lab. Org. Chem., Univ. Utrecht, Utrecht, Neth.
Carbohydrate Research (1977), 59(1), 81-6
CODEN: CRBRAT, ISSN: 0008-6215 AUTHOR (S):

CORPORATE SOURCE: SOURCE:

DOCUMENT TYPE:

CODEN: CREAT? ISSN: 0008-6215

WENT TYPE: Journal

BAGE: Journal

English

Conversion of benzyl ep-D-galactofuranoside into the

5,6-0-[a-(dimeth)lamino) benzylidene] derivative, followed by acetylation
of H0-2 and H0-3, and selective ring opening of the acetal, gave benzyl

2,3-di-0-acetyl-6-0-benzyl-3-B-D-galactofuranoside (I). The
title disaccharide was prepared from I by reaction with 3,4,6-tri-0-acetyla-D-galactofuranose 1,2-(He orthoacetate) followed by removal of
protecting groups.
65784-97-6F

RL: RCT (Reactant): SPN (Synthetic preparation): PREP (Preparation): RACT
(Reactant or reagent)

(preparation and acetylation of)
65784-97-6 RAZPUS

D-Galactofuranoside, phenylmethyl 5,6-0-[(dimethylamino)phenylmethylene](9CI) (CA INDEX NAME)

Absolute stereochemistry

L4 ANSWER 43 OF 52 HCAPLUS COPYRIGHT 2007 ACS on STN ED Entered STN: 12 May 1984 ACCESSION NUMBER: 1978:121598 HCAPLUS DOCUMENT NUMBER: 88:121598 HCAPLUS Synthesis.of 2,5,6- and 3,5,6-t; Rao, Arepalli 5.1 Roy, Nirmolenc

os:12:358 Synthesis.of 2,5,6- and 3,5,6-tri-O-methyl-D-galactose Rac, Arepalli S.; Roy, Nirmolendu Dep. Macromol., Indian Assoc. Cultiv. Sci., Calcutta, India CORPORATE SOURCE:

SOURCE:

DOCUMENT TYPE: LANGUAGE:

Dep. Macromol., Indian Assoc. Cultiv. Sci., Calcutta, India

RCE: Carbohydrate Research (1977), 59(2), 393-401
CODEN: CABRAT, ISSN: 0008-6215
Journal
SUAGE: English
Starting from Me ß-D-galactore. (I) vere synthesized.
The aldictol acetates were prepared from I and II, and their behavior in gas-liquid chromatog. was compared. Mass spectra of the aldictol acetates from I and II showed that these compds. gave fragmentations as expected.
The aldictol acetate from II was also prepared by an alternative route.
20869-14-IP
RLI: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation), RACT (Reactant or reagent)
(preparation and benzylation of)
20869-14-I RCAPLUS
B-D-Galactofuranoside, methyl 5,6-O-(1-methylethylidene)- (9CI) (CA INDEX NAME)

L4 ANSWER 45 OF 52 HCAPLUS COPYRIGHT 2007 ACS on STN

ED Entered STN: 12 May 1984
ACCESSION NUMBER: 1971:423678 HCAPLUS

DOCUMENT NUMBER: 37:23678
Acetal exchange reactions. Part 3. Monomolar acetalations of methyl α-D-mannosides - synthesis of methyl α-D-talopyranoside
EVANS, Michael E.; Parcish, Frederick V.
AUSTHOROGATE SOURCE: CARPATY ISSN: 0008-6215

DOCUMENT TYPE: DOCUMENT TYPE: 1984

CODEN: CRBRAT; ISSN: 0008-6215

JOURNAL
LANGUAGE: Journal
LANGUAGE: English

AB Me 2,3-0-isopropylidene-a-D-mannopyranoside (I) was prepared from Me
a-D-mannopyranoside in 56% yield by acetalation with (MeO) 2CMe2 in

DMF containing 65 mM H2504, or from Me 2,3:4,6-di-0-isopropylidene-a-Dmannopyranoside in 75% yield by graded, acid hydrolysis. I underwent
successive benzoylation, oxidation, and reduction to give Me
6-0-benzoyl-2,3-0isopropylidene-a-D-b-2-a-mannopyranopylidene-a-

-benzoyl-2,3-0isopropylidene-a-D-talopyranoside. Treatment of Me
a-D-mannofuranoside with 1.5 parts (MeO) 2CMe2 in DMF containing a trace
of acid gave 901 Me 5,6-0-isopropylidene-a-D-mannofuranoside.
63167-75-9P
RE: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation and tosylation of)
63167-75-9 RCAPUS
a-D-Mannofuranoside, methyl 5,6-0-(1-methylethylidene)-'(9CI) (CA
INDEX NAME)

L4 ANSWER 46 OF 52 HCAPLUS COPYRIGHT 2007 ACS on STN ED Entered STN: 12 May 1984 ACCESSION NUMBER: 1976:17670 HCAPLUS DOCUMENT NUMBER: 84:17670

AUTHOR(S): CORPORATE SOURCE: SOURCE:

DOCUMENT TYPE: LANGUAGE:

OTHER SOURCE(S):

ESSION NUMBER: 1976:17670 HCAPLUS

WENT NUMBER: 12.17670 HCAPLUS

12.2 Hydride shifts in the reaction of methyl
5,6-0-cyclohexylidenemethylsulfonyl-3-0-a- and
-p-D-allofuranoside with methylmagnesium iodide

HOR(S): Kawana, Hasajico Emoto, Sakae

Inst. Phys. Chem. Res., Saltama, Japan

Tetrahedron Letters (1975), (39), 3395-8

CODEN: TELEAR' ISSN: 0040-4039

JOURNAI TYPE: JOURNAIS AND THE STANDAY OF THE STAN

(preparation of) 58109-24-3 HCAPLUS

α-D-Allofuranoside, methyl 5,6-0-cyclohexylidene- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

ANSWER 47 OF 52 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L4 ANSWER 47 OF 52 HCAPLUS COPYRIGHT 2007 ACS on STN
ED Entered STN: 12 May 1984
ACCESSION NUMBER: 1966:497043 HCAPLUS
COCUMENT NUMBER: 59:97043
TITLE: Syntheses of 2.3-di-O-benzyl-a-L-arabino-pentodialdo-1.4-furanoside and its B-anomer
AUTHOR(S): Saeki, Hiromichi, Iwashige, Tadahiro
CORPORATE SOURCE: Cent. Res. Lab., Sankyo Co., Ltd., Tokyo, Japan
CORPORATE SOURCE: Cent. Res. Lab., Sankyo Co., Ltd., Tokyo, Japan
CODEN: CPBTAL, ISSN: 0009-2363
DOCUMENT TYPE: Journal
LANCUAGE: English
GI For diagram(s), see printed CA Issue.
AB The title compds. (I and II, resp.) were synthesized from Me
a-L-arabinofuranoside (III) and its B-anomer (IV), resp., and
also from Me a-D-galactofuranoside (V) and its B-anomer (VI),
resp. Tritylation, followed by benzylation, and destritylation, of IV and VI gave Me 2.3-di-O-benzylation and descendation, of V and VI gave Me 2.3-di-O-benzylation
B-anomer (VIII), resp. Acetonation, followed by benzylation and deacetomation, of V and VI gave Me 2.3-di-O-benzylation and deacetomation, of V and VI gave Me 2.3-di-O-benzylation and deacetomation, of V and VI gave Me 2.3-di-O-benzylation and Meacetomation, of V and VI gave Me 2.3-di-O-benzylation and Seatofuranoside (IX) and its B-anomer (XI), resp. Oxidation of VIII
with Me2CO-N.N'-dicyclohexylcarbodimide-HP04, or oxidation of X with Pb(OAc)4, gave syrupy II semicarbazone m. 124-5', [a]D 2-1' (CHC13);
2.4-dinitrophenylhydrazone m. 122-3'.

PALI SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 20869-13-0P 20869-14-IP
(CA INDEX NAME)

Absolute stereochemistry.

Absolute stereochemistry.

20869-14-1 HCAPLUS β-D-Galactofuranoside, methyl 5,6-0-(1-methylethylidene)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 48 OF 52 HCAPLUS COPYRIGHT 2007 ACS on STN ED Entered STN: 12 May 1984 CACCESSION NUMBER: 1568:477674 HCAPLUS COCCENTIVE CACCESSION NUMBER: 1568:477674 HCAPLUS CACC

AUTHOR(S): CORPORATE SOURCE:

69:77674
Direct synthesis of deoxyglycosides employing crystalline O-acyldeoxyglycosyl halides
Zochach, W. W.; Bhat, C. C.; Bhat, K. V.
Div. Life Sci., Gulf South Res. Inst., New Iberia, LA, USA

CURPURATE SOURCE:

Div. Life Sci., Gulf South Res. Inst., New Iberia, LA USA

Advances in Chemistry Series (1968), No. 74, 1-14

CODEN: ADCSAJ; ISSN: 0065-2393

DOCUMENT TYPE:
JOurnal
LANGUAGE:

Brish

B The preparation of a stable, crystalline O-acylglycosyl halide of 2-deoxy-D-arabino-hexafurance and per-O-(p-nitrobenzoyl)qlycosyrancayl halides of four 2-deoxy sugars is discussed; their utility in the direct synthesis of biol. important 2-deoxyglycosides is demonstrated by couplings with cardiac aplycons or with dialkoxypyrimidines.

Tri-O-benzoyl-a-D-rhamnosyl bronide couples with two cardiac aplycons to give two cardenolides having the unnatural a-D-configuration. 4-O-Benzoyl-2, 3-O-carbonyl-6-deoxy-a-D-mannosyl bronide slae couples with cardiac aplycons, resulting in two, 1, 2-cis-cardenolides, each heving the B-D configuration. Exploration of some coutes to a halide of 2-deoxy-D-ribo-hexofurance is delineated. 24 references.

Tr 27071-79-0 Rs: SPM (Synthetic preparation); PREP (Preparation) (preparation of)

RN 27071-79-0 HCAPLUS (CA INDEX NAME)

CM 1

Absolute stereochemistry.

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L4 ANSWER 48 OF 52 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L4 ANSWER 49 OF 52 HCAPLUS COPYRIGHT 2007 ACS on STN (Continued) or B-D-glucofuranoside were unsuccessful. Et glycosides of 2-desoxy sugars are somewhat more stable than are the Me glycosides.

10 207572-29-6P, Olucofuranoside, ethyl-, a-D-, cyclic 5,6-carbonate RL: PREP (Preparation) (preparation of)

RN 901572-29-6 HCAPLUS Glucofuranoside, ethyl-, a-D-, cyclic 5,6-carbonate (SCI) (CA INDEX NAME)

Absolute stereochemistry.

EN ERECRED STN: 22 Apr 2001
ACCESSION INMERS: 1951:6036 ENCAPLUS
CONCIMENT NUMBER: 45:6036
ORIGINAL REFERENCE NO.: 45:6036
ORIGINAL REFERENCE NO.: 45:6036
AUTHOR(S): Deboxy sugars. XII. Experiments with 0- and N-glycosides of some desoxy sugars
AUTHOR(S): Deboxy sugars. XII. Superiments with 0- and N-glycosides of some desoxy sugars
AUTHOR(S): Butler, K., Laland, S., Overend, W. G., Stacey, H. Univ., Birmingham, UK
SOUNCE: Journal of the Chemical Society (1950) 1433-9
COLENT TYPE: Journal of the Chemical Society (1950) 1433-9
COLENT TYPE: Journal Industry of the Compds. Studied had been prepared previously and full references are given. The anilides of the following sugars were prepared: 2-desoxy-D-glucose (1), m. 193-4*
(deanilinized with 0.5% HOOZH at 80*); 2-desoxy-D-galactose, m.
134-5* (decomposition), (e)180-116* -16*
(deanilinized with 0.5% HOOZH at 80*); 2-desoxy-D-galactose, m.
134-5* (decomposition), (e)180-116* -16*
(in), -5-6* (20 hrs., in MeOH); 2-desoxy-D-xylose (cf.
C.A. 44, 106629; D-glucose D-galactose D-ribopyranose, m.
114-16*, (e)D 62* (3 min.) -50* (24
hrs.) (pyridine), 135* (13 min.) +
12* (47 hrs.) (MeOH); and D-xylose. The hydrolysis rate of various anilides (usually in conces, of 0.044 mole/l. in either N or 0.1 N H2SO4 in MeOH) say followed polarimetrically to constant (e)D. (In a few instances, saturated solns. of the sugars were used. Hydrolysis-time curves show that, in all cases, the desoxy sugar anilides were hydrolyzed much more rapidly than were the corresponding derivs. of the normal sugars. The following D-glucopyranosides were also formed: P-Et (II), m.
12*-10*, (e)10 -37*, (H2O) (tetra[p-nitrobenozate), m. 100-1*, (e)10 -37*, (H2O) (H2O) (tetra[p-nitrobenozate), m. 100-1*, (e)10 -37*, (H2O) (

L4 ANSWER 50 OF 52 HCAPLUS COPYRIGHT 2007 ACS on STN ED Entered STN: 22 Apr 2001 - ACCESSION NUMBER: 1950:12472 HCAPLUS DOCUMENT NUMBER: 44:12472 DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: 44:12472
44:12452a-i,2453a
Desoxy sugars. IV. Synthesis of 2-desoxy-D-ribose from D-rythrose
Overend, W. G., Stacey, M., Wiggins, L. F.
Univ. of Birmingham, UK
Journal of the Chemical Society (1949) 1358-63
CODEN: JCSOA9; ISSN: 0368-1769 TITLE: AUTHOR (S): CORPORATE SOURCE: SOURCE: DOCUMENT TYPE: Journal MENT TYPE: Journal UNGE: Unavailable R SOURCE(S): CASREACT 44:12472 cf. preceding and following abstrs. Crude brucine erythronate (3 g.), obtained by hydrolyzing oxidized starch, was converted by (CO2H)2 into the lactone, and by means of Ac20 and dry HCl into 2,3-diacetyl-Desythronactone, m. 50-1.5°. Ca D-arabonate (1), m. 99-101° (from H2O), [m]021 -6.8°, was formed from D-arabinose and Br, followed by aeration, treatment with Ag2O, filtration, precipitation with H2S, filtration, and heating with CaCO3. Solns. of LANGUAGE: OTHER SOURCE(S): MeOH, filtered, and evaporated, giving a pale yellow sirup setting to noncryst. glassy D-erythrose (II), (e]D14.5 -18.5° (equilibrium value in H2O), converted into 2.3-propylidene-ap-methyl-D-erythroside (III), biD 100°, (e]D14.5 -55.5° (CHC13), by shaking in dry MeZCO, MeOH, and 0.2% HZSO4 with CuSO4. (The L-isomer of III, b2 45-50°, [e]D 57.4° (cf. Felton and Freudenberg, C.A. 29, 7288.4) With 0.1 N HZSO4 at room temperature, III II; phenylosazone, m. 160-2.5° (from EtOH). Two other methods for preparing II were also carried out. Triacetylglucal (12.95 g.) was heated min. with H2O, concentrated in vacuo, extracted with Et2O, washed, dried, min. with H2O, concentrated in vacuo, excrates and EtoR distilled twice heated with Ac2O and AcONs at 100° 3 hrs., evaporated, and EtoR distilled twice over the residue, which was then reextd. with Et2O and dried, yielding 1.4.6-triacetylpseudoglucal (IV), b0.01 115-25° [a]D18 66.8° (CHC13), nD19 1.4839, decolorizes Br-H2O. IV (0.5 g.) in Et2O hydrogenated with Pt catalyst gave triacetyldidesoxyglucose, C12H18O7, oil, b0.01, about 12O-30° [a]D18 22.63° (CHC13), nD15 1.4548. Ozonization of IV (0.595 g.) in AcOH until Br in CC14 was no longer decolorized gave 0.42 g. of the 2.4-di-Ac derivative of readily hydrolyzed to II by 0.05 N HCl. 1,2-Isopropylideneglucofuranose 5,6-carbonate (V) (cf. Haworth and Porter, C.A. 24, 1350), m. 226*, (e)D20 -37.4*, was treated in pyridine at 0* with MeSOZCI, giving the 3-MeSO2 derivative of V, needles, m. 136-7*, (e)D18.5 -22.1*. V heated in EtOH with concentrated HCl at 70-75* formed glucofuranose 5,6-carbonate, m. 179*, (e)D17 18.1* (H2O). Warmed with an excess of aqueous Ba(OH)2 at 70°, V gave 1,2-isopropylideneglucofuranose, m. 158-9*, (e)D16.5 -13.6* (H2O). V (1 g.) at 45* in 25 cc. MeOH containing 0.3 cc. H2SO4 gave, after BaCO3 treatment, Me glucofuranoside 5,6-carbonate, m. 142-4* (from MeOH-EtZO), (e)D22

Absolute stereochemistry.

LA ANSWER 52 OF 52 HCAPLUS COPYRIGHT 2007 ACS on STN

ED Entered STN: 16 Dec 2001

ACCESSION NUMBER: 1930:12294 HCAPLUS

COUCHENT NUMBER: 24:12294

ORIGINAL REFERENCE NO.: 24:1350a-e

ITILE: Isolation of crystalline B- and I-ethyl glucosides) and other crystalline derivatives of glucofurances

AUTHOR(S): Haworth, Walter N., Porter, Charles R.

SOURCE: Journal of the Chemical Society (1929) 2796-806

CODEN: JCSOA9, ISSN: 0368-1769

DOCUMENT TYPE: Unavailable

AB A suspension of glucose in dry MeZCO, treated with COC12, gives glucoseacetone carbonate (1), sinters 215', m. 223-4'
(decomposition), s780(1)2 -36', the mother liquors gave glucoseacetone and -diacetone. The same compound was obtained from glucoseacetone and COC12. I and p-NeCSH4502C1 in CSHSN give the p-toluenesulfonyl derivative, m. 103-5', a578023 -36', a546123 -39' (MeZCO, c 0.6), Ba(CH12 converts this into p-toluenesulfonylglucosediacctone, m. 120-1'. I in EtOH, treated with EtOH-HCl so that the concentration of the acid is 2.25t and of the sugar

with EtOH-NCI so that the concentration of the acid is 2.25% and or the sugar derivative 1.6%, gives after 6-0 hrs. B-Et glucofurancide 5.6-monocarbonate (11), m. 164-5°, a578019-50.6°, a546119-55.0° (H2O (H2O c 1.1)) from the mother liquors there were isolated the 2.3-di-Ac derivative of the a-form, m. 159-60°, a678021-143°, a546121-157° (Me2CO, c 1.71), and of the B-form, m. 79-81°, a678023-39° a546123-42° (Me2CO, c 0.93). Hydrolysis with Ba(OH)2 gives a-Et glucofurancide, m. 82-3°, a578023-166°, a6123-116°, a023-98° (H2O c 1.58); this is stable in contact with Fehling solution or cold dilute Mn04 for a period of several hrs.

but is completely hydrolyzed in 0.6 hr. on heating with 0.01 N HCl. The β -derive, showed $\alpha D26.6-86^\circ$, $\alpha G78026.5-93^\circ$, $\alpha G78026.5-101^\circ$ (H2O c 0.9); this is stable toward 15% alkali but is easily hydrolyzed by 0.01 N HCl at 90°; it is stable toward dilute KMnO4 and Fehling solution I and MeOH containing concentrated H2SO4

B-He glucofuranoside 5,6-monocarbonate (III), m. 143-5', (a)578022 a546122 -75' (H2O, c 0.7). Either II or III with dilute acid gives glucofuranose 5,6-monocarbonate, m. 182-3' (decomposition) a578020 18' (H2O, c 0.8); this also results from I and EtOH-HCl: the phenylosazone, yellow, m. 202-3' a678021 in CHSN changes from 103' to-48' in 4 days. The anilide, decomps. 180'. 70835-84-6F, Glucofuranoside, β-methyl-, 5,6-monocarbonate RL: PREP (Preparation 0') 70835-84-6 HCAPLUS β-D-Glucofuranoside, methyl, cyclic 5,6-carbonate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 51 OF 52 HCAPLUS COPYRIGHT 2007 ACS on STN

ED Entered STN: 16 Dec 2001
ACCESSION NUMBER: 1940:51543 HCAPLUS

OCCUMENT NUMBER: 34:51543
A1:7856g-j,7857a-b
Acetone derivatives of the mercaptals of some monosaccharides. V. The 5,6-monoacetone derivative of d-galactose dibersyl mercaptals and the 6-methyl derivative of d-galactose

AUTHOR(S): Pacsu, Eugener Trister, S. M.
SOURCE: Journal of the American Chemical Society (1940), 62, 2301-4

CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: CODEN: JACSAT; ISSN: 0002-7863

DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB cf. C: A: 33, 8575.4. The mercaptal, m. 112.5* (@]D20

17.4*, is shown to be 5,6-acetonegalactose dibenzyl mercaptal (I)
(cf. C. A: 30, 8170.3). I (15 g.) with yellow HgO and HgCl2 in EtOH gives
6.8 g. 5,6-acetone-β-ethylgalactofuranoside (II), [e]D22

-70* (H2O, c 1.625); it does not reduce Fehling solution, contains 1

Me2C group and requires I mol. of HIO4 for oxidation, HCHO being absent in
the oxidation mixture Methylation with MeI and Ag2O of 6.8 g. II yields MeZC group and requires 1 mol. of HIO4 for oxidation, HCHO being absent in the oxidation mixture Methylation with MeI and Ag2O of 6.8 g. II yields 5.7 g.

of the 2,3-di-Me derivative, pale yellow liquid, which is hydrolyzed to 2,3-dimethylgalactose, [a]D22 64.7 [H2O, c 2.1], changing to 80.9° in 90 min. [a]D20 17.2° (CHCIA) c 1.62];

PhNHNHZ in AcOH gives 3-methylgalactosazone, m. 176-9°, [a]D17 63.5° (CSHSN, c 0.425). The 4-methylgalactose dibenzyl mercaptal of P. and Lob (C. A. 24, 1846) is shown to be the 6-isomer; in its preparation diacetonegalactose dibenzyl mercaptal is converted to the Na salt and treated with HeI and the Me2C groups are removed with EtOH-HCI. HgO and HgCl2 give 6-methyl-β-methylgalactofuranoside, pale yellow, [a]D20 -78.7° (H2O, c 3.25), which on hydrolysis yields 6-methylgalactose the osazone shows mutarotation, changing from 141° to 91.8° in 24 h. (CSHSN, c 1.045).

IT 898284-71-4P, Galactofuranoside, 5,6-acetone-β-ethyl-RL: PREP (Preparation) (preparation of)

RN 898284-71-44 RCAPLUS

CM Galactofuranoside, 5,6-acetone-β-ethyl- (4CI) (CA INDEX NAME)

Absolute stereochemistry.

ANSWER 52 OF 52 HCAPLUS COPYRIGHT 2007 ACS on STN

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